

### Anti-MDMX/MDM4 antibody ab16058

★★★★★ [1 Abreviews](#) [10 References](#) [2 Images](#)

#### Overview

<b>Product name</b>	Anti-MDMX/MDM4 antibody
<b>Description</b>	Rabbit polyclonal to MDMX/MDM4
<b>Host species</b>	Rabbit
<b>Specificity</b>	Two bands were detected with the antibody in HeLa nuclear extract, at ~80 and 100 kDa. The 80 kDa band was no longer detected after the addition of competing peptide, suggesting that this band corresponds to MDMX/MDM4. MDMX/MDM4 has been shown previously to migrate aberrantly at an ~80 kDa size (see deGraaf, et.al., J Biol Chem. 2003 Oct 3;278(40):38315-24). The 100 kDa band is not competed away by the addition of the immunizing peptide, suggesting that it is nonspecific cross-reactivity.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Cow, Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human MDMX/MDM4 aa 200-300 (internal sequence) conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab16383</a> )
<b>Positive control</b>	Recombinant Human MDMX/MDM4 protein ( <a href="#">ab114467</a> ) can be used as a positive control in WB. This antibody gave a positive signal in the following nuclear cell extract: HeLa. This antibody gave a positive signal in the following Methanol fixed cell lines: HeLa. ICC/IF: HeLa cells
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide

Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

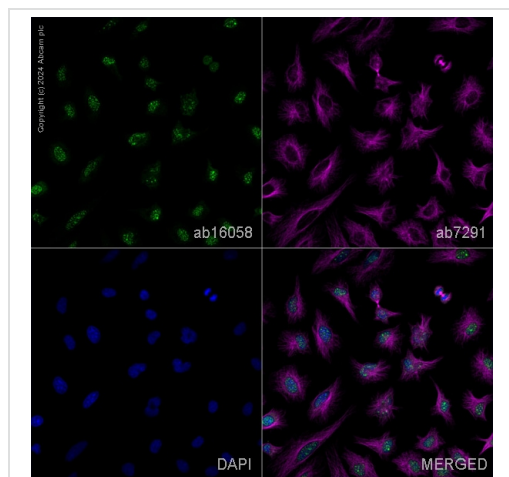
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab16058 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (1)	Use a concentration of 5 µg/ml.
WB		1/1000. Detects a band of approximately 80 kDa (predicted molecular weight: 58 kDa).

## Target

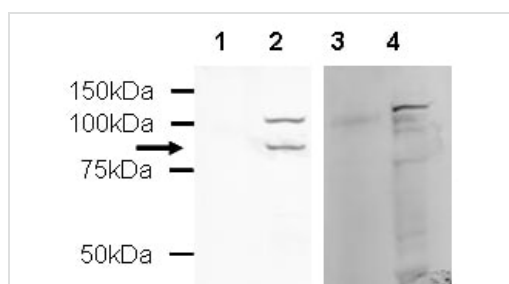
<b>Function</b>	Inhibits p53/TP53- and TP73/p73-mediated cell cycle arrest and apoptosis by binding its transcriptional activation domain. Inhibits degradation of MDM2. Can reverse MDM2-targeted degradation of TP53 while maintaining suppression of TP53 transactivation and apoptotic functions.
<b>Tissue specificity</b>	Expressed in all tissues tested with high levels in thymus.
<b>Sequence similarities</b>	Belongs to the MDM2/MDM4 family. Contains 1 RanBP2-type zinc finger. Contains 1 RING-type zinc finger. Contains 1 SWIB domain.
<b>Domain</b>	Region I is sufficient for binding TP53 and inhibiting its G1 arrest and apoptosis functions. It also binds TP73. Region II contains most of a central acidic region and a putative C4-type zinc finger. The RING finger domain which coordinates two molecules of zinc mediates the heterooligomerization with MDM2.
<b>Post-translational modifications</b>	Ubiquitinated. Deubiquitinated by USP2; leading to stabilize it.
<b>Cellular localization</b>	Nucleus.

## Images



Immunocytochemistry/ Immunofluorescence - Anti-MDMX/MDM4 antibody (ab16058)

ab16058 staining MDMX/MDM4 in HeLa cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab16058 at 5µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour magenta). Nuclear DNA was labelled with DAPI (shown in blue). Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Western blot - Anti-MDMX/MDM4 antibody (ab16058)

**All lanes** : Anti-MDMX/MDM4 antibody (ab16058) at 1/1000 dilution

**Lane 1** : 20ug calf thymus histone

**Lane 2** : 20ug HeLa nuclear extract

**Lane 3** : 20ug calf thymus histone with Human MDMX/MDM4 peptide (**ab16383**) at 1 µg/ml

**Lane 4** : 20ug HeLa nuclear extract with Human MDMX/MDM4 peptide (**ab16383**) at 1 µg/ml

### Secondary

**All lanes** : Alexa Fluor Goat polyclonal to Rabbit IgG (700) at 1/5000 dilution

Performed under reducing conditions.

**Predicted band size:** 58 kDa

**Observed band size:** 80 kDa

**Additional bands at:** 100 kDa (possible cross reactivity)

Two bands were detected with the antibody in HeLa nuclear extract, at ~80 and 100 kDa. The 80 kDa band was no longer detected after the addition of competing peptide, suggesting that this band corresponds to MDMX/MDM4. The 100 kDa band is not competed

away by the addition of the immunizing peptide, suggesting that it is nonspecific cross-reactivity.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

#### **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

#### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors